



كلية الصيدلة جامعة الزيتونة الأردنية
Faculty of Pharmacy
Al-Zaytoonah University of Jordan

" نحو تعليم صيدلاني متميز "
Toward Excellence in Pharmaceutical
Education

جامعة الزيتونة الأردنية
Al-Zaytoonah University of Jordan
كلية الصيدلة
Faculty of Pharmacy



" Tradition and Quality "

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|---|----------------|
| Detailed Course Description - Course Plan Development and Updating Procedures/ Pharmacy Department | QF02/0408-3.0E |
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|---------------------------|----------|--------------------------------|----------------------------------|
| Faculty | Pharmacy | Department | Pharmacy |
| Course number | 0201415 | Course title | Practical medicinal Chemistry |
| Number of credit hours | 1 | Pre-requisite/co- requisite | 0201414, 0201212 |

Brief course description

This course explores the role of medicinal chemistry in drug synthesis. It addresses principles of drug chemical synthesis. This course is designed to enhance the student knowledge and ability to operate a chemical drug synthesis using know procedures.

| Course goals and learning outcomes | |
|------------------------------------|--|
| Goal 1 | To introduce the knowledge of drug synthesis, and enhance the student knowledge and lab skills to conduct a synthetic procedure of some known drugs and give the rationale behind each step. |
| Learning outcome | 1.1 Synthesis of different known drugs by simple synthetic procedures. 1.2 Conduct a qualitative and quantitative test for some known drugs. |

| Week | Number of hours | Course topics | Notes |
|------|-----------------|-------------------------------------|-------|
| 1 | 3 | Synthesis of Paracetamol | |
| 2 | 3 | Paracetamol Identification | |
| 3 | 3 | Assay of Paracetamol Tablets | |
| 4 | 3 | Synthesis of Acetanilide | |
| 5 | 3 | Synthesis of Sulfanilamide (Part1) | |
| 6 | 3 | Synthesis of Sulfanilamide (Part 2) | |
| 7 | 3 | Synthesis of Aspirin | |
| 8 | 3 | Assay of Chloramphenicol eye drops | |
| 9 | 3 | Assay of Spironolactone Tablets | |



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| 10 | 3 | Determination of Furosemide content in Tablets | |
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| Theoretical course evaluation methods and weight | | Practical (clinical) course evaluation methods | Reports=15% Quizes=25% Evaluation=10% Final exam= 50% |
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| Approved by head of department | | Date of approval | |
|-----------------------------------|--|------------------|--|

Extra information (to be updated every semester by corresponding faculty member)

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|------------------------------|---|---|--|
| Name of teacher | Dr. Buthaina Hussein Dr. Amira Abd- Alrahem Dr. Dima Sabbah | Office Number Office Number Office Number | 404 409 227 |
| Phone number (extension) | 278 273 311 | Email | Buthina.hussein@zuj.edu.jo Ameerah.ibrahim91@zuj.edu.jo Dima.sabbah@zuj.edu.jo |
| Office hours(Dr.Buthaina) | Sunday, Tuesday 11-12 pm Wednesday, Monday 11-12 pm Thursday 12-2pm | | |
| Office hours(Dr.Dima) | 11-12 Monday, Wednesday 10-11 Sunday, Tuesday | | |
| Office hours(Dr.Amira) | Sunday 12-1.30, Monday 10-11 am Tuesday 11-2 Wednesday 11-1 | | |